[Icon

Description automatically generated](mailto:siddhantd28@gmail.com?subject=Hello%20Siddhant!)**[Logo

Description automatically generated](https://www.linkedin.com/in/scd/)**[Shape

Description automatically generated with low confidence](https://github.com/siddhantd28)**SIDDHANT DESHMUKH­**

San Jose, California | [siddhantd28@gmail.com](mailto:siddhantd28@gmail.com) | 415-630-0891 *“Passion for creating products and platforms from scratch and scaling them to handle extremely high volumes of data*”

**Experience**

**AMAZON WEB SERVICES (AWS) - Senior Software Engineer (L6) - OpenSearch - Palo Alto, California Sept 2022-Present**

* Led global innovation of AWS OpenSearch, a Tier 1 mission-critical service generating massive undisclosed revenue
* Build Query Insights, a flagship platform for deep analysis and optimization of search query performance
* Build Intelligent Insights, an AI driven Operations Root Cause Analysis tool using AWS Bedrock and CloudWatch
* Engineered scalable query pipelines with AWS Glue and Spark for global trend analysis and anomaly detection
* Delivered Hard Cancellation to eliminate resource use from cancelled queries via advanced pattern detection
* Developed Cluster Insights, providing predictive cluster performance, tuning and failure alerts
* Delivered operations support and tooling to XXL customers, safeguarding massive revenue

**VMWARE - Senior Member of Technical Staff - Platform Team - Palo Alto, California Aug 2019-Sept 2022**

* Owned 30+ services in the [Uhana](https://www.virtualizationworks.com.au/datasheets/telcocloud/vmw-uhana-datasheet.pdf) platform, handling **10M+ EPS** ingest and **25M+ EPS** distribution globally
* Designed the [patented TCP Distributor](https://patents.google.com/patent/US11665094B2/en?q=(siddhant)&inventor=deshmukh&assignee=vmware&oq=siddhant+deshmukh+vmware) and built the [CRIC platform](https://techdocs.broadcom.com/us/en/vmware-sde/telco-cloud/vmware-telco-cloud-platform-ran/3-0/telco-cloud-platform-ran-intrinsic-security-guide/open-ran-architecture-and-vmware-telco-cloud-platform-ran.html) for large-scale customer trials
* Migrated Uhana from Mesas/Marathon to Kubernetes/Helm to streamline deployments
* Built ELK logging across regions and enabled zero-downtime upgrades with high availability

**UHANA (Acquired by VMWARE) - Senior Software Engineer - Palo Alto, California Aug 2019**

**INFORMATICA - Software Engineer - Cloud Platform Team - Redwood City, California Feb 2017-Jul 2019**

* Enhanced the [Informatica Cloud Platform](https://www.informatica.com/products/cloud-integration.html#fbid=SIPQ4DvQI3j), improving core services used by all cloud customers
* Owner of V3API (nest-gen [public APIs](https://docs.informatica.com/integration-cloud/cloud-platform/current-version/rest-api-reference/informatica-intelligent-cloud-services-rest-api.html)), enabling seamless customer migration to cloud

**INFORMATICA - Software Development Intern - Cloud Platform Team - Redwood City, California May-Aug 2016**

**Skills**

**Programming:** Java, Python, Go, JavaScript (Node.js, Angular, Express), C++, Scala, R, Ruby, Rust

**Databases:** Cassandra, Oracle SQL, MySQL, Elasticsearch, MongoDB, PostreSQL, Redis, Opensearch, DynamoDB

**Cloud & DevOps:** AWS (Multiple services), Kubernetes, Docker, Jenkins, Bazel, Marathon, Mesos, Prometheus, HAProxy

**Big Data & Streaming:** Spark**,** Hadoop (HDFS, Hive), Flink, Kafka, Storm

**AI/LLM Skills:** AWS AI Services (Bedrock, SageMaker), LLMs (Claude, OpenAI GPT)

**Projects**

**QUERY INSIGHTS -** Flagship observability platform for search query analytics **Sept 2022-Present**

* Architected backend and frontend features for Top Queries, Query Grouping, Query Metrics
* Integrated OpenTelemetry to enable end-to-end visibility into query performance at a global scale

**INTELLIGENT INSIGHTS –** AI driven root cause analysis tool. **Sept 2022-Present**

* Built AI-powered RCA system using CloudWatch, S3 and OpenSearch for automated issue detection
* Used Bedrock (Claude) for natural language summaries and enabled AI Ops integration with chatbot

**UHANA PLATFORM** - AI-based analytics platform to improve customer experience on 4g & 5g networks **Aug 2019-Sept 2022**

* Ingest data at 10 million eps and distribute at 25 million eps (Java, Python, Kafka, Cassandra)

**TCP DISTRIBUTOR -** Critical services to distribute large scale network telemetry data to multiple clients **Aug 2019-Sept 2022**

* Filter, Process and distribute data from cell towers to multiple clients in real-time at 25 million eps

**ELK LOGGING FRAMEWORK –** Setup logging framework for Uhana Platform on multiple continents **Aug 2019-Sept 2022**

* Used Elasticsearch, Filebeat, Logstash and Kibana to setup logging spanning multiple continents

**Research, Patents & Conferences**

**SPEAKER -** Presented OpenTelemetry and observability strategies at OpenSearchCon Berlin **Sept 2022-Present**

**PATENT -** Designed the [patented TCP Distributor](https://patents.google.com/patent/US11665094B2/en?q=(siddhant)&inventor=deshmukh&assignee=vmware&oq=siddhant+deshmukh+vmware) for Uhana, VMware **Aug 2019-Sept 2022**

**MOBILE MONEY MONITORING MACHINE -** Research Project in Network Security Lab **Aug-Dec 2016**

**RESEARCH PAPER -** Efficient and Secure Template Blinding for Biometrics [IEEE CNS Research Paper](https://ieeexplore.ieee.org/abstract/document/7860539) **Jan-Aug 2016**

**Education**

**Master of Science in Computer Science Aug 2015-Dec 2016** University of Florida, Gainesville, Florida, USA  **4.0/4.0 GPA**